In the Claims:

For the Examiner's convenience, all pending claims are presented below with

changes shown.

1. (Original) A device, comprising: a scheduler in an access point to provide a schedule

of variable length packets based on transmission times to send on spatial channels to

mobile stations.

2. (Original) The device of claim 1 further including adaptive antenna arrays used in

conjunction with a beam forming algorithm to achieve spatial diversity and implement

Spatial-Division Multiple-Access (SDMA), wherein the adaptive antenna array changes

beam weights based on the schedule.

3. (Original) The device of claim 1 wherein the scheduler in the downlink provides the

schedule of transmission intervals for different mobile stations.

4. (Original) The device of claim 1 wherein the schedule accounts for traffic information

to the mobile stations based on packet size.

5. (Original) The device of claim 1 wherein the schedule accounts for traffic information

to the mobile stations based on queue size.

6. (Original) The device of claim 1 wherein the schedule accounts for traffic information

to the mobile stations based on priority.

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7. (Original) The device of claim 1 wherein the access point sends multiple schedules in

a protected time interval to the mobile stations.

8. (Original) The device of claim 7 wherein a first schedule of the multiple schedules is

sent to a first mobile station and a second schedule is sent to a second mobile station.

9. (Original) The device of claim 1 wherein the access point fills spatial channels using

the data packets buffered for all the mobile stations.

10-25. (Canceled)

26. (Original) A method for a Medium Access Control (MAC) protocol, comprising:

scheduling variable length packets in an access point based on transmission times to send

on spatial channels to mobile stations.

27. (Original) The method of claim 26, further including: retrieving antenna resources in

the access point to form spatial channels developed on the fly for a waiting mobile '

station.

28-29. (Canceled)

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